

## PCT


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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03PCT247-WDZ	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/CN03/00825	International filing date (day/month/year) 27.Sep.2003(27.09.2003)	Priority date (day/month/year) 18.Dec.2002(18.12.2002)
International Patent Classification (IPC) or national classification and IPC IPC7:A47L9/24		
Applicant ZHANG, Yuqi		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>		
Date of submission of the demand 16.Jul.2004(16.07.2004)	Date of completion of this report 18.03.2004(18.Mar.2004)	
Name and mailing address of the IPEA/ 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer  Telephone No. 010-62085833	

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ the international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_ as originally filed/furnished

pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_ as originally filed/furnished

pages \* \_\_\_\_\_ as amended (together with any statement) under Article 19

pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_ as originally filed/furnished

pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages \* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement:**

Novelty (N)	Claims 1~8	YES
	Claims	NO
Inventive step (IS)	Claims 7、8	YES
	Claims 1~6	NO
Industrial applicability (IA)	Claims 1~8	YES
	Claims	NO

**2. Citations and explanations (Rule 70.7)**

Reference is made to the following document:

**1). Citation**

D1:CN2522029Y

**2). Statement on inventive step**

The present application does not satisfy the criterion set forth in Article 33(3) PCT, because the Claims 1~6 do not involve an inventive step.

**Claim 1**

D1 discloses a suction tube for a vacuum cleaner,compring:

an outer pipe(8),an inner pipe(1) received in said outer pipe(8);

a locking device(2) having a detent pin(6)for positioning said inner pipe(1)with respect to said outer pipe(8);

a guiding bush(2) attached to said outer pipe(8),

a guiding rib(11) disposed at the guiding bush(2);and

a guiding recess(12) attached to said inner pipe(1),being engageable and slidable with said the first guiding member so that said inner pipe(1) and said outer pipe(8)can move axially with respect to each other,

Said inner pipe(1)is provided axially with a row of detent holes(9),each of which penetrates through the wall of the inner pipe(1),an inner liner layer is fixed onto the inner wall of said inner pipe(1)for isolating vacuum of the inner pipe from the detent holes,said detent pim(6)of said locking device is inserted into one of said detent holes(9)s when said locking device(20)is in an unlocking state.(the whole document)

When comparing with D1,the distinctive feature is "a first guiding member"and"a second guiding member",but D1 discloses the "a guiding rib(11)"and "a guiding recess(12)", the function of which are the same as those of the distinctive features for solving the reformulated technical problem in the claimed invention;

Thus, it is obvious to the person skilled, the technical solution of the claim invention is obvious, thus claim 1 does not involve an inventive step.

**Claims 2~6**

The append features of claims 2~6 are also know from the same document D1(the whole document).

These claims 2~6 are thus not involving an inventive step.

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
CN2522029Y	2002-11-27	2001-11-12	

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)